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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,545	08/08/2001	Thomas Jefferson Awad	S01448/70003 JNA	4752
23628	7590	08/03/2004	EXAMINER	
WOLF GREENFIELD & SACKS, PC FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE BOSTON, MA 02210-2211			MAI, TAN V	
			ART UNIT	PAPER NUMBER
			2124	

DATE MAILED: 08/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	<b>Application No.</b> 09/925,545	<b>Applicant(s)</b> AWAD ET AL.	
	<b>Examiner</b> Tan V Mai	<b>Art Unit</b> 2124	

**– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –**  
**Period for Reply**

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 3/19/04, 12/18/02 & 9/17/01.  
2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.  
3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-38 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☒ Claim(s) 1-38 is/are allowed.  
6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \*    c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

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**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>3/19/04, 12/18/02 &amp; 8/8/01</u> | 6) <input type="checkbox"/> Other: _____  |

1. This application is in condition for allowance except for the following formal matters:

The disclosure is objected to because of the following informalities:

In the specification:

Page 1; the status of Co-pending Applications is required to be kept current;  
Appropriate correction is required.

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cited references are art of interest.
3. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest:

(1) The detail of "**selection unit**" [for selecting the first or second sets of filter coefficients based on the **change of state** of the **filter coefficient sets**] as recited in independent claims 1, 28 and 31;

(2) The detail of "**detecting** step" [for selecting the first or second sets of filter coefficients based on the **change of state** of the **filter coefficient sets**] as recited in independent claims 10 and 19;

(3) The detail of "**means for selecting**" [for selecting the first or second sets of filter coefficients based on the **change of state** of the **filter coefficient sets**] as recited in independent claim 30; and

(4) The detail of **"comparing step"** [for selecting the first or second sets of filter coefficients based on the **change of state** of the **filter coefficient sets**] as recited in independent claim 35.

It is noted that: (1) Awata et al, US Pat. 5,375,147, see Figs. 2-3 & 8-9 and De Leon II et al, US Pat. 5,553, 014 and EP 0 709 958 A1, see Figs. 1 & 3-4, disclose a "filter adaptation unit" having the claimed **"first input"**, **"second input"** and **"coefficient generation unit"**, and (2) Prater et al, US Pat. 6,437,932, see Fig. 3 & Claims 1 & 6, disclose a "filter adaptation unit" having the claimed "selection unit" for selecting the first or second sets of filter coefficients based on the **"first input"**. Therefore, the combined teachings of either Awata et al or De Leon II et al in view Prater et al do NOT show the selection feature based on the **"change of state** of the **filter coefficient sets"**.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (703) 305-9761. The examiner can normally be reached on Tue-Fri from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone numbers for the organization where this application or proceeding is assigned are:

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After-final (703) 746-7238

Official (703) 746-7239

Non-Official/Draft (703) 746-7240.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.



TAN V. MAI  
PRIMARY EXAMINER

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